



ORDER NO. RD-628

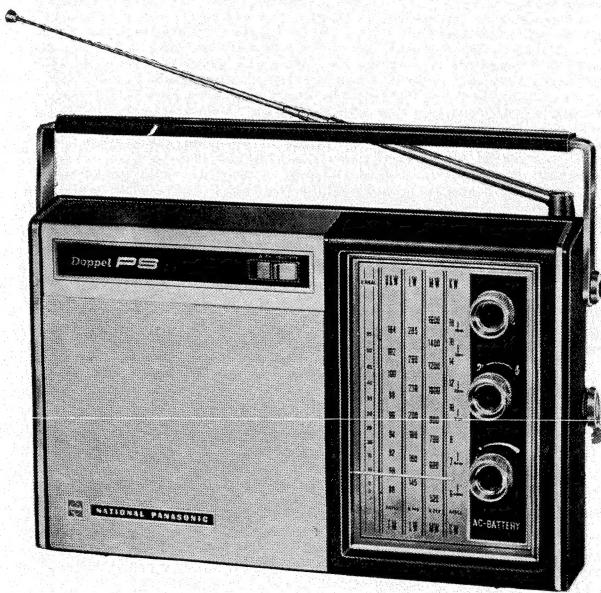


NATIONAL PANASONIC

Service Manual

FM-AM 4-BAND PORTABLE RADIO

MODEL **RF-949LB or VB**



SPECIFICATIONS

Frequency Range: FM 87.5~104 MHz...Model RF-949LB
FM 65.0~74.0 MHz...Model RF 949VB
LW 145~285 kHz (2060~1060m)
MW 520~1610 kHz (577~186m)
SW 5.9~18 MHz (50.8~16.7m)

Intermediate Frequency: FM 10.7 MHz
AM 455 kHz
Transistors: 2SC921 FM RF Amplifier
2SC920 FM Converter
2SC920 FM IF & AM Converter
2SC469} FM & AM IF Amplifier
2SC469} FM & AM IF Amplifier
2SC469 FM IF Amplifier
2SB173 PRI Amplifier
2SB173 AF Amplifier
2SB175 AF Amplifier
2SB324} Power Amplifier (push-pull)
2SB324}

Diodes: O A 9 0 FM D. AGC
O A 9 0 AM D. AGC
O A 9 0 AM Detector & AGC

Diodes: O A 9 0 } FM Ratio Detector
O A 9 0 }
SC-15 FM AFC
1S1211 } AOC
1S1211 }
1S1850 RECT

Sensitivity: FM 1 μ V for 50mW Output
LW 100 μ V/m for 50mW Output
MW 70 μ V/m for 50mW Output
SW 10 μ V for 50mW Output

Power Output: 0.7W Undistorted
1.5W Maximum

Power Source: AC (110~125V/220~250V 50~60 Hz)
or Battery (four "D" size Flashlight
Batteries 6V) (NATIONAL UM-1 or
equivalent)

Power Consumption: 5W (AC)
Speaker: 10cm (4") PM Dynamic Speaker, 8 Ω
Cabinet Dimensions: 275(Wide) \times 173(High) \times 72(Deep) mm
(10 $\frac{1}{2}$ " \times 6 $\frac{1}{2}$ " \times 2 $\frac{1}{2}$ ")
Weight: 2.4 kg. (5 lb. 11.7 oz.) with batteries

MODEL RF-949LB or VB

To Remove Chassis (Refer to fig. 1)

1. Remove three (3) control knobs from cabinet front.
2. Remove three (3) cabinet back cover mounting screws.
3. Remove cabinet back cover from cabinet.
4. Pull out antenna socket from cabinet back cover.
5. To remove chassis completely, unsolder leadwires to battery terminals.
6. To remove chassis completely, unsolder leadwires to tone switch, external antenna jack and earth jack terminals from back cover.
7. Remove six (6) red screws chassis mounting screws Nos. 1~6, as illustrated in fig. 1.
8. To remove chassis completely, unsolder leadwires to speaker terminals.

Notes: Replace earphone/external speaker or phono jack, as illustrated, in fig. 1.
 Earphone/External speaker jack (Shield wires)downward
 Phono jack (Wires)upward

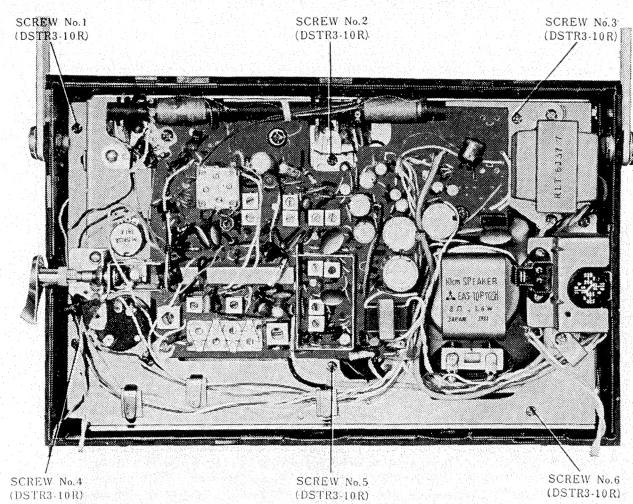


Fig. 1 Top View—Disassembly Points

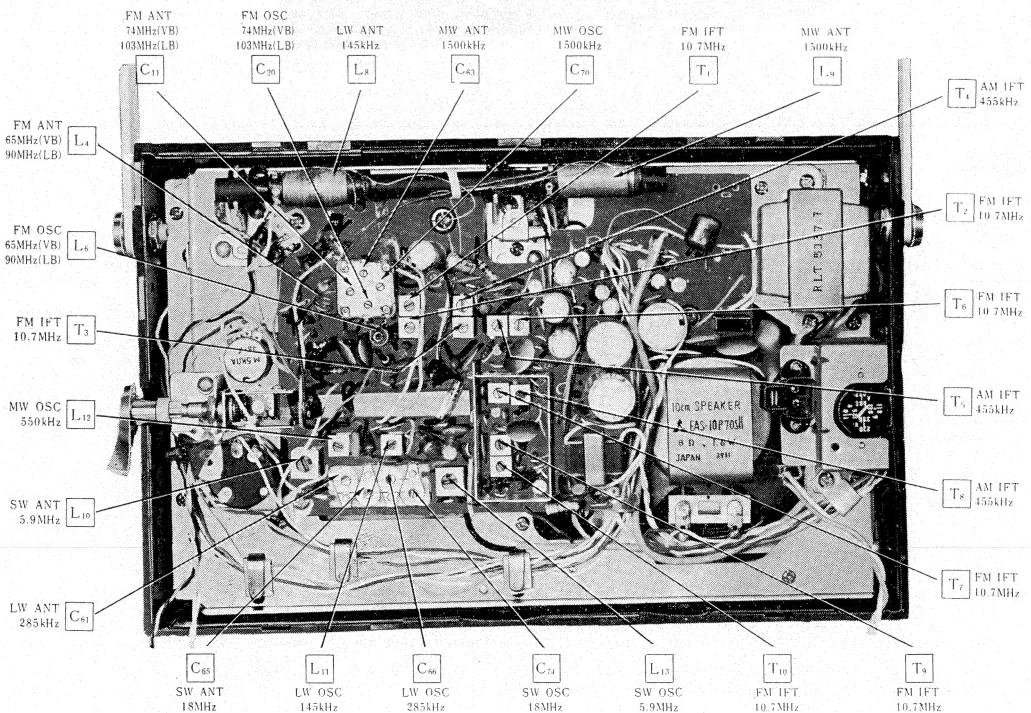


Fig. 2 Alignment Points

MODEL RF-949LB or VB

ALIGNMENT INSTRUCTIONS

TABLE

Band	Frequency	Distance from "Start Point"		Description
FM	65 MHz	9.2 mm	$\frac{3}{8}$ "	RF-949VB Only
	74 MHz	81.2 mm	$3\frac{1}{8}$ "	
	90 MHz	14.7 mm	$\frac{1}{2}$ "	RF-949LB Only
	103 MHz	78.2 mm	$3\frac{1}{16}$ "	
LW	145 kHz	9.8 mm	$\frac{3}{8}$ "	
	285 kHz	83.5 mm	$3\frac{1}{16}$ "	
MW	550 kHz	9.8 mm	$\frac{3}{8}$ "	
	1500 kHz	83.5 mm	$3\frac{1}{16}$ "	
SW	5.9 MHz	3.5 mm	$\frac{5}{32}$ "	
	18 MHz	88.3 mm	$3\frac{1}{2}$ "	

FREQUENCY & DISTANCE ON DIAL SCALE

To accurately align the proper frequencies to the dial scale, refer to Table and mark the edge of the dial scale plate accordingly using the "Start point" mark on the dial scale as a reference point.

LW, MW, SW RF & IF ALIGNMENT-PORTABLE

Output of signal generator should be no higher than necessary to obtain an output reading. Set volume control to maximum. Set tone control fully counter-clockwise. Set power source voltage to 6 volts DC.						
Band Switch Position	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
1 MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz (400 Hz Mod.)	Point of non-interference (on/about 600 kHz)	Output meter across voice coil.	T ₄ (AM 1st IFT) T ₅ (AM 2nd IFT) T ₈ (AM 3rd IFT)	Adjust for maximum output.
2 LW	"	145 kHz (400 Hz Mod.)	145 kHz	"	L ₁₁ (OSC Coil) L ₈ (ANT Coil)	Adjust for maximum output by sliding coil (L ₉) along ferrite core.
	"	285 kHz (400 Hz Mod.)	285 kHz	"	C ₆₆ (OSC Trimmer) C ₆₁ (ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
4 MW	"	550 kHz (400 Hz Mod.)	550 kHz	"	L ₁₂ (OSC Coil) L ₉ (ANT Coil)	Adjust for maximum output by sliding coil (L ₉) along ferrite core.
	"	1500 kHz (400 Hz Mod.)	1500 kHz	"	C ₇₀ (OSC Trimmer) C ₆₃ (ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
6 SW	"	5.9 MHz (400 Hz Mod.)	5.9 MHz	"	L ₁₀ (OSC Coil) L ₁₃ (ANT Coil)	Adjust for maximum output by sliding hot side lead of coil.
	"	18 MHz (400 Hz Mod.)	18 MHz	"	C ₄₆ (OSC Trimmer) C ₃₅ (ANT Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).

Notes: 1. Cement antenna bobbin with wax after completing alignment.
2. For measurement of sensitivity, connect output meter across speaker voice coil.

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FM IF & DETECTOR ALIGNMENT WITH OSCILLOSCOPE

OSCILLOSCOPE

Set sweep selector of oscilloscope to "External Sweep". Apply 60Hz sweep signal from sweep generator to horizontal input terminals of oscilloscope.

EQUIPMENT REQUIRED

Signal generator that provides 10.7 MHz marker.
Sweep generator that provides 10.7 MHz center frequency and 400 kHz sweep width.
Set band selector switch to FM.
Set volume control to minimum.
Set tone control to high. (§)
Set AFC switch to OFF.
Set AC/BATTERY Selector switch to BATTERY.
Set power source voltage to 6 volts AC.

Note: Unsolder lead between test point TP₃ and Point A before alignment and resolder after alignment.

SWEET GENERATOR COUPLING	SIGNAL GENERATOR COUPLING	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
High side thru .001μF to point TP ₂ . Common to chassis.	High side thru .001μF to point TP ₂ . Common to chassis.	Point of non-interference (on/about 96 MHz)	Connect vert. Amp. of scope to point TP ₃ . Common to chassis.	T ₁ (FM 1st IFT) T ₂ (FM 2nd IFT) T ₃ (FM 3rd IFT) T ₆ (FM 4th IFT) T ₇ (FM 5th IFT) T ₉ (FM 6th IFT)	Adjust for maximum amplitude and proper linearity between ±100 kHz markers. (Refer to fig. 3)
"	"	"	Connect vert. Amp. of scope to point TP ₃ . Common to chassis.	T ₁₀ (FM 6th IFT) (Secondary)	Adjust T ₁₀ so that 10.7 MHz marker appears at the center. (Refer to fig. 4)

Note: When aligning the Ratio Detector circuit, the wave form may appear as in figs. 3 & 4 or upside-down.

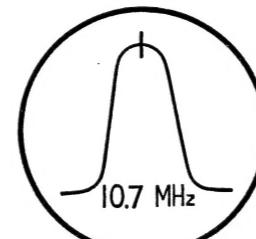


Fig. 3

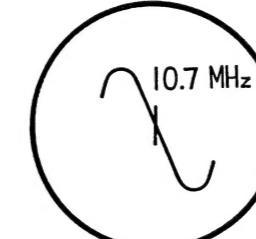


Fig. 4

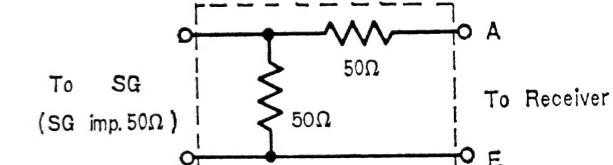


Fig. 5 FM Dummy Antenna

FM RF ALIGNMENT

Output of signal generator should be no higher than necessary to obtain an output reading.

Set volume control to maximum.

Set band selector switch to FM.

Set AFC switch to OFF.

Set AC/BATTERY selector switch to "BATTERY".

Set power source switch to 6 volts DC.

Set tone control to high.

Note: Unsolder lead between test point TP₁ and Point B before alignment and resolder after alignment.

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
Connect to point TP ₅ through FM Dummy antenna. Common to chassis. (Refer to fig. 5)	65 MHz (RF-949VB only) 90 MHz (RF-949LB only) (400 Hz Mod.)	65 MHz (RF-949VB only) 90 MHz (RF-949LB only) (400 Hz Mod.)	Output meter across earphone jack. (Load 8Ω)	L ₆ (FM OSC Coil) L ₄ (FM ANT Coil)	Adjust for maximum output.
"	74 MHz (RF-949VB only) 103 MHz (RF-949LB only) (400 Hz Mod.)	74 MHz (RF-949VB only) 130 MHz (RF-949LB only)	"	C ₂₀ (FM OSC Trimmer) C ₁₁ (FM ANT Trimmer)	Adjust for maximum output. Repeat steps (3) and (4).

Note: As three output responses will be present, proper tuning is the center frequency.

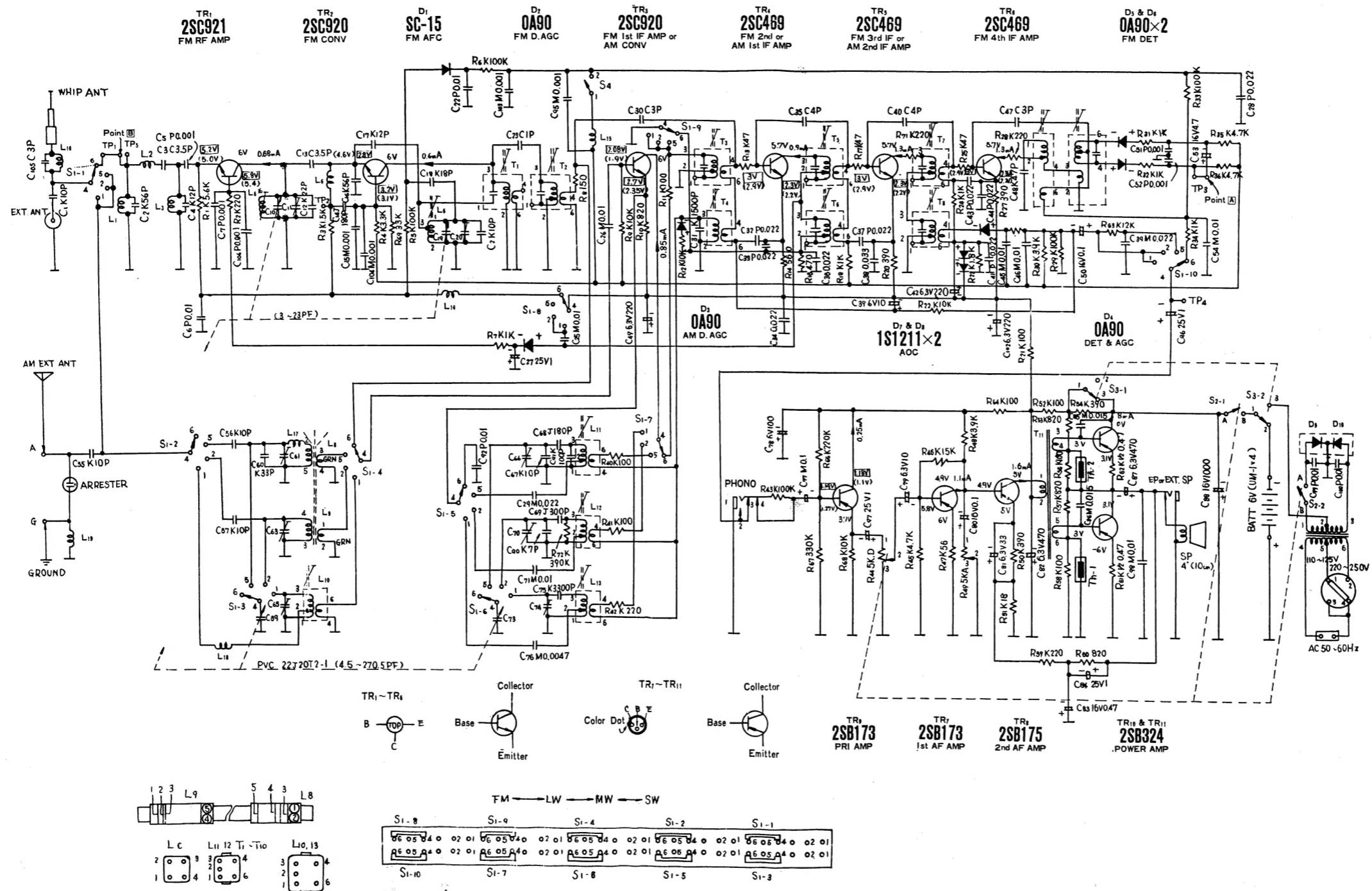


Fig. 6 Schematic Diagram

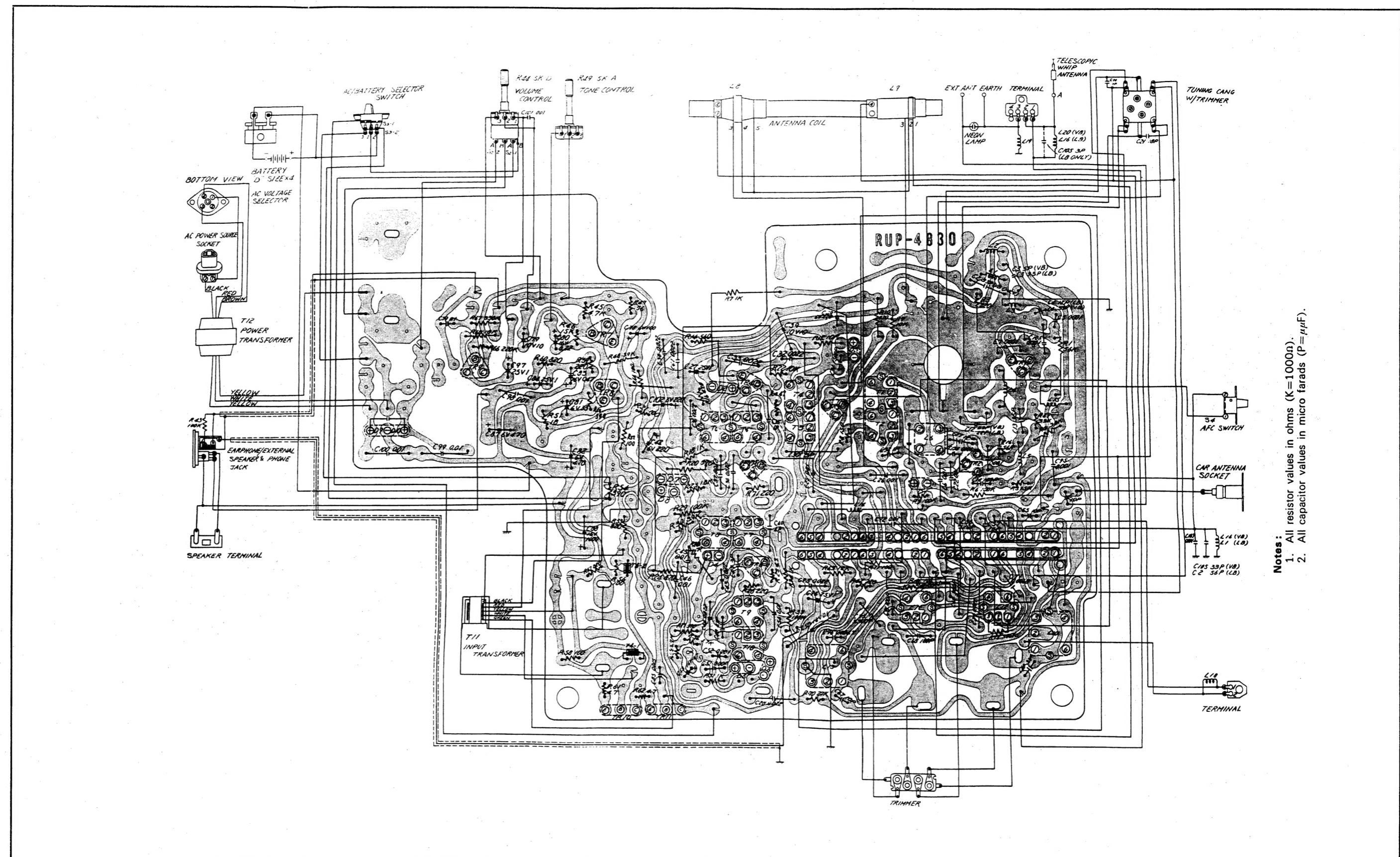


Fig. 8 Circuit Board Wiring View (Conductor Side).

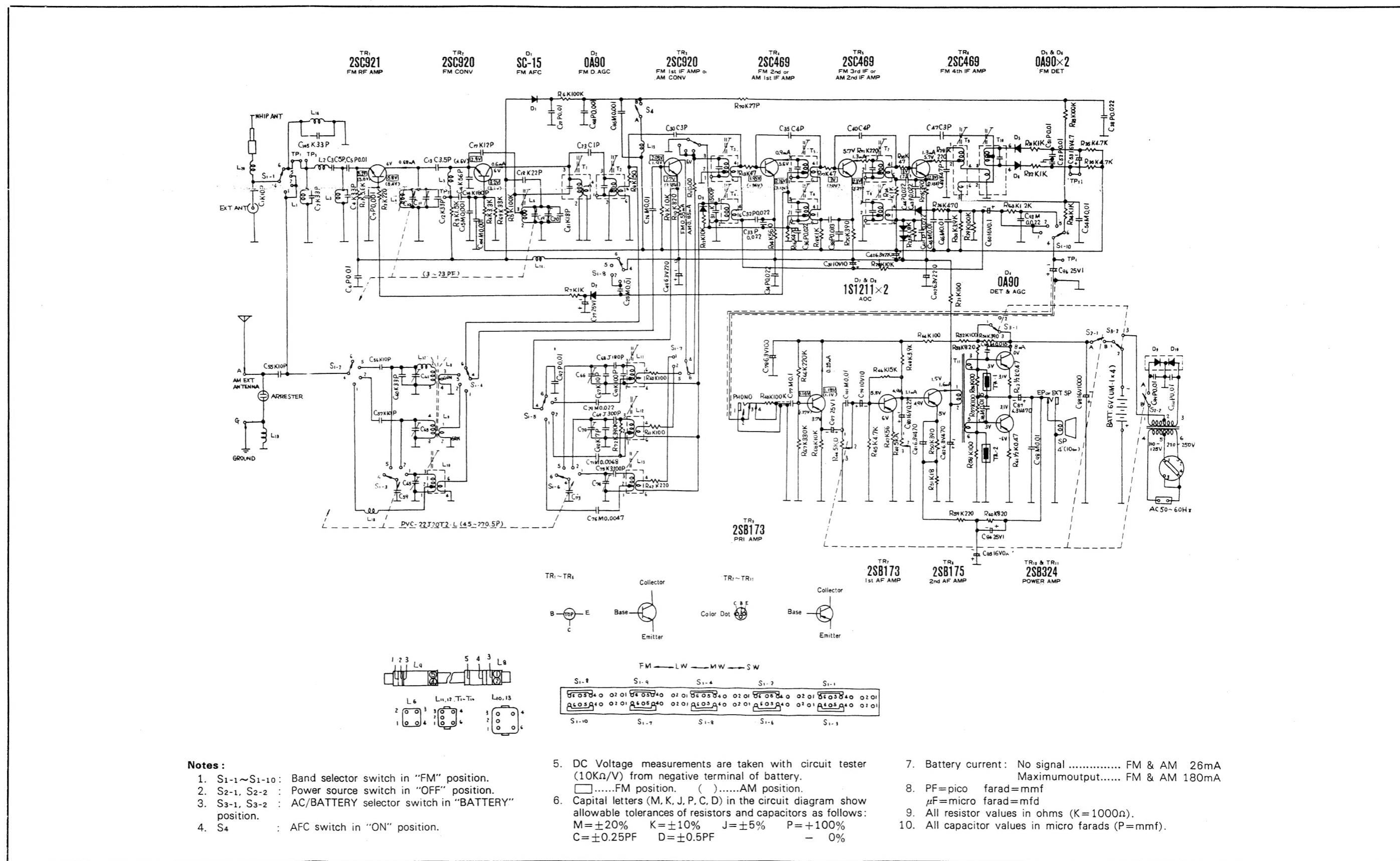
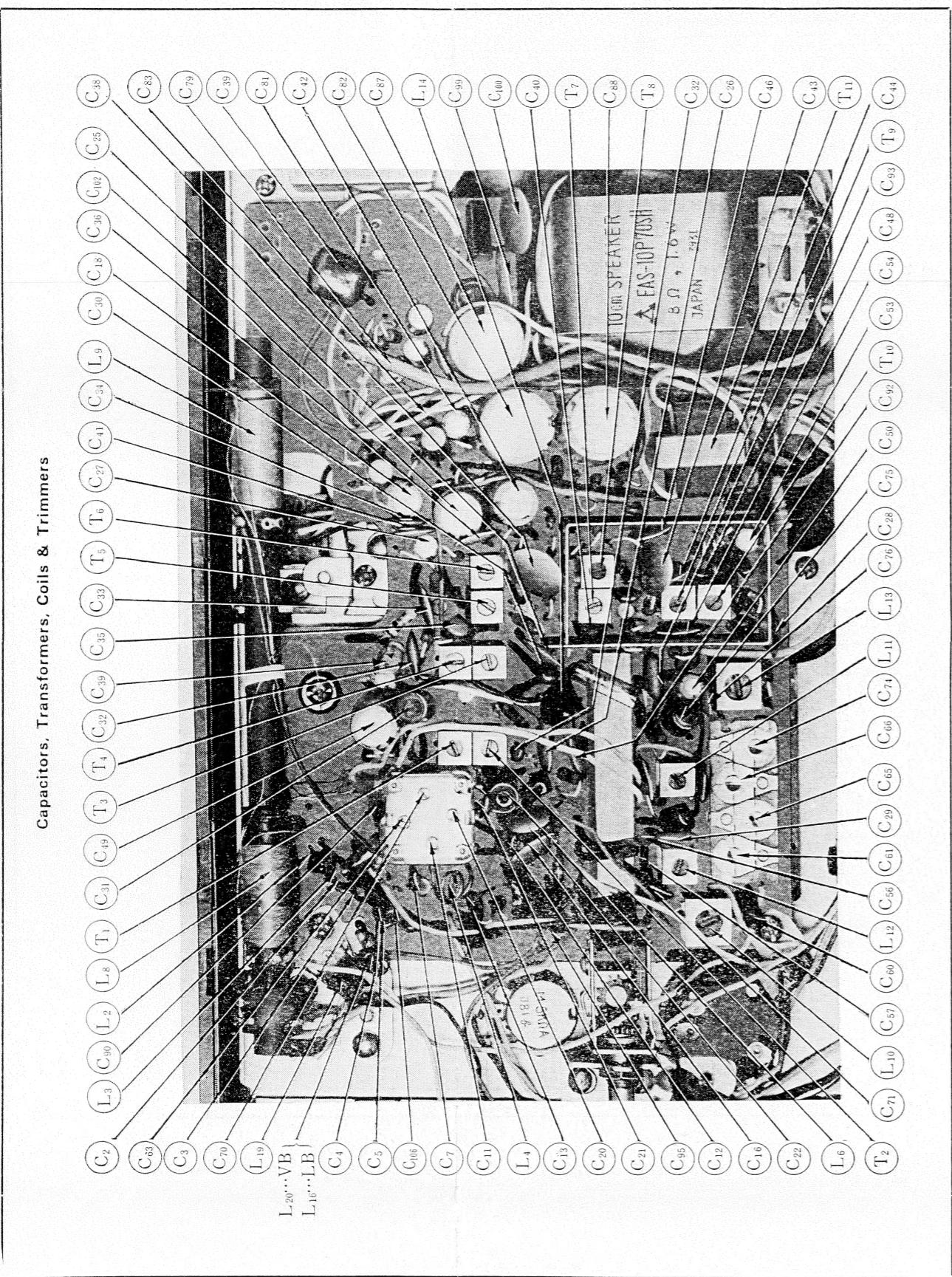


Fig. 7 Schematic Diagram



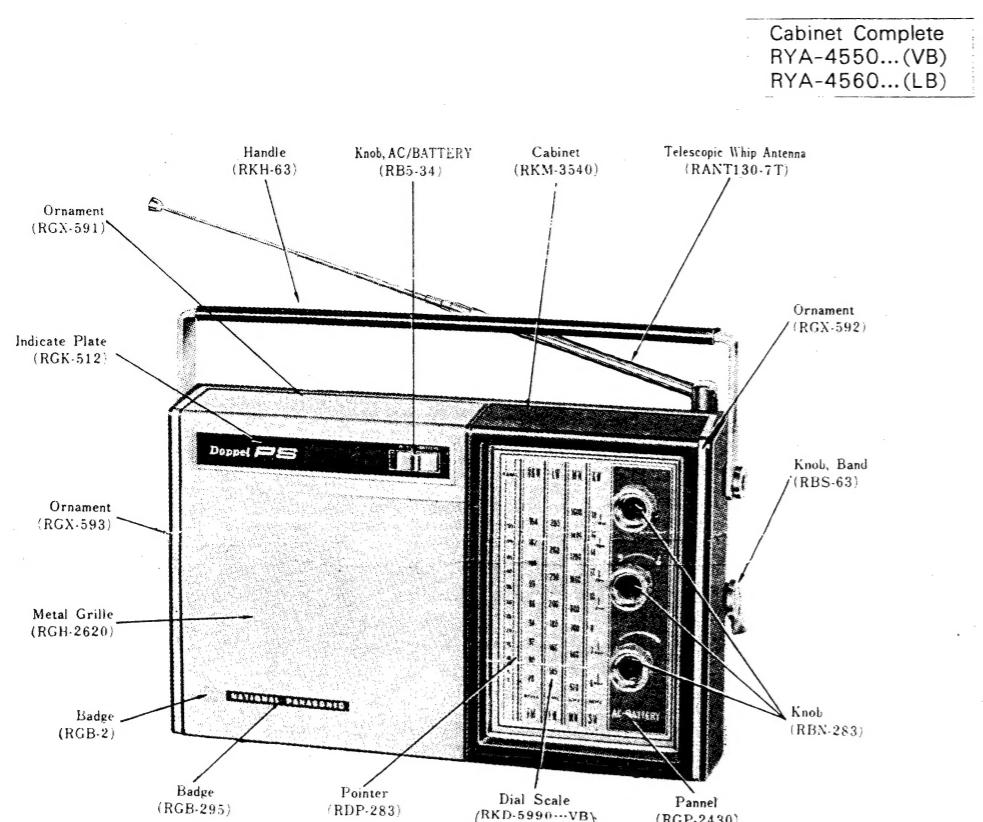


Fig. 11 Cabinet & Appearance—Parts Identification

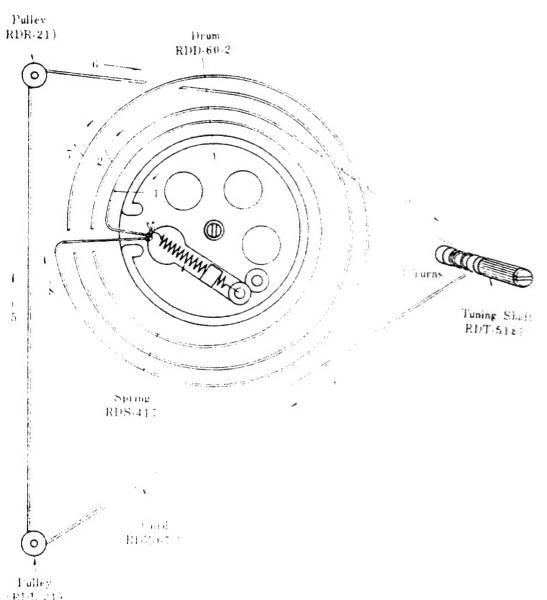


Fig. 12 Dial Cord Stringing Guide



REPLACEMENT PARTS LIST

Notes: 1. * indicates parts for the complete cabinet which are included when the cabinet is ordered.
2. Stock numbers are indicated on most mechanical parts. Please use this number, therefore, when ordering parts.
3. ISO metric thread screws & parts which employ ISO metric thread screws are identified by ISO marking.

Ref. No.	Part No.	Description
TRANSISTORS AND DIODES		
TR1	2SC921	FM RF Amplifier
TR2	2SC920	FM Converter
TR3	2SC920	FM 1st IF Amplifier or AM Converter
TR4	2SC469	FM 2nd IF Amplifier or AM 1st IF Amplifier
TR5	2SC469	FM 3rd IF Amplifier or AM 2nd IF Amplifier
TR6	2SC469	FM 4th IF Amplifier
TR7	2SB173	1st AF Amplifier
TR8	2SB175	2nd AF Amplifier
TR9	2SB173	Pre. Amplifier
TR10, TR11	2SB324	Power Amplifier
D1	SC-15	FM AFC
D2	OA90	FM D. AGC
D3	OA90	AM D. AGC
D4	OA90	AM Detector & AGC
D5, D6	OA90	FM Detector
D7, D8	1S1211	AOC
THERMISTORS		
Th1	MT-080	Temperature Compensator
Th2	MT-080	Temperature Compensator
CAPACITORS		
C5, C7, C51, C52, C106	ECK-D05102P	0.001μF, 50WV, +100%, Ceramic...C106 (RF-949LB)
C6, C22, C92	ECK-E05103P	0.01μF, 50WV, +100%, Ceramic
C28, C32, C33, C34, C36, C37, C41, C43, C44	ECK-E05223P	0.022μF, 50WV, +100%, Ceramic
C15, C95, C103, C104	ECK-E05102MY	0.001μF, 50WV, ±20%, Ceramic
C76	ECK-E05472MY	0.0047μF, 50WV, ±20%, Ceramic
C25, C26, C45, C46, C54, C98	ECK-E05103MY	0.01μF, 50WV, ±20%, Ceramic
C99, C100	ECK-D5103P	0.01μF, 500WV, +100%, Ceramic
C23	ECC-D05010C	1PF, 50WV, ±0.25PF, Ceramic
C30, C47	ECC-D05030C	3PF, 50WV, ±0.25PF, Ceramic
C3, C13	ECC-D053R5C	3.5PF, 50WV, ±0.25PF, Ceramic
C35, C40	ECC-D05050C	5PF, 50WV, ±0.25PF, Ceramic... (RF-949LB)
C1, C21, C55, C56, C57, C67	ECC-D05040C	4PF, 50WV, ±0.25PF, Ceramic
C21	ECC-D05100KC	10PF, 50WV, ±10%, Ceramic
C18	ECMS-05180KH	18PF, 50WV, ±10%, Mica... (RF-949LB)
C4, C17	ECC-D05180KC	18PF, 50WV, ±10%, Ceramic... (RF-949LB)
C18	ECC-D05120KC	12PF, 50WV, ±10%, Ceramic...C4 (RF-949LB)
C90	ECC-D05220KC	22PF, 50WV, ±10%, Ceramic... (RF-949VB)
C60, C105	ECC-D05070D	7PF, 50WV, ±0.5PF, Ceramic
C48	ECM-S05330K-H	33PF, 50WV, ±10%, Mica
C2, C16	ECM-S05470K-H	47PF, 50WV, ±10%, Mica
C2, C4, C12	ECM-S05560K-H	56PF, 50WV, ±10%, Mica...C2 (RF-949LB)
C91	ECM-S05330K-H	33PF, 50WV, ±10%, Mica...C2, C12 (RF-949VB)
C68	ECM-S05101K-H	100PF, 50WV, ±10%, Mica
C14	ECM-S05181J-H	180PF, 50WV, ±10%, Mica
C69	ECC-D05181K	180PF, 50WV, ±10%, Ceramic
C31	ECQ-S1301JZ	300PF, 125WV, ±5%, Styrol
C75	ECQ-S1152KZ	1500PF, 125WV, ±10%, Styrol
C101	ECQ-S05332KH	3300PF, 50WV, ±10%, Styrol
C85, C86	ECQ-G05103MZ	0.01μF, 50WV, ±20%, Polyester
C77	ECQ-G05153MZ	0.015μF, 50WV, ±20%, Polyester
C29, C93	ECQ-G05104MZ	0.1μF, 50WV, ±20%, Polyester
C71	ECQ-G05223MZ	0.022μF, 50WV, ±20%, Polyester
C12	ECQ-G05682MZ	0.0063μF, 50WV, ±20%, Polyester
	ECM-S05220KC	22PF, 50WV, ±10%, Mica... RF-949LB

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Ref No.	Part No.	Description
CAPACITORS		
C ₅₀	ECA-G16ER1 or ECA-G16ER1-Y	0.1 μ F, 16WV, Electrolytic
C ₈₀	ECA-G16ER22 or ECA-G16ER22-Y	0.22 μ F, 16WV, Electrolytic
C ₈₃	ECA-G16ER47 or ECA-G16ER47-Y	0.47 μ F, 16WV, Electrolytic
C ₃₉ , C ₇₉	ECE-A10V10	10 μ F, 10WV, Electrolytic
C ₈₁	ECE-A6V33	33 μ F, 6 WV, Electrolytic
C ₇₈	ECE-A6V100	100 μ F, 6 WV, Electrolytic
C ₄₂ , C ₄₉ , C ₁₀₂	ECE-A6V220	220 μ F, 6 WV, Electrolytic
C ₈₂ , C ₈₇	ECE-A6V70	470 μ F, 6 WV, Electrolytic
C ₈₈	ECE-A16V1000	1000 μ F, 16WV, Electrolytic
C ₅₃	ECE-A16V4R7	4.7 μ F, 16WV, Electrolytic
C ₂₇ , C ₈₄ , C ₉₆ , C ₉₇	ECE-A25V1	1 μ F, 25WV, Electrolytic
C ₆₁ , C ₆₅ , C ₆₆ , C ₇₄	ECV-4RW12W13Z	Trimmer Capacitor
C ₁₀ , C ₁₉ , C ₅₉ , C ₇₀	PVC-22J20T2-1	Tuning Gang w/Trimmer (C ₁₁ , C ₂₀ , C ₆₃ , C ₇₃)
RESISTORS		
R ₆₁ , R ₆₂	ERW-12LR47	0.47 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Wire
R ₅₁	ERD-14VK 180	18 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₁₃ , R ₁₇ , R ₂₅	ERD-14VK 470	47 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₄₇	ERD-14VK 560	56 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₂₁ , R ₄₀ , R ₄₁ , R ₅₂ , R ₅₆ , R ₅₈ , R ₆₄	ERD-14VK 101	100 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₈	ERD-14VK 151	150 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₂ , R ₂₈ , R ₄₂ , R ₅₉ , R ₇₁	ERD-14VK 331	330 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₂₀ , R ₂₇ , R ₅₀ , R ₅₄	ERD-14VK 391	390 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₁₆	ERD-14VK 471	470 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₁₄	ERD-14VK 561	560 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₁₀ , R ₅₃ , R ₅₇ , R ₆₀	ERD-14VK 821	820 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₁₈ , R ₂₄ , R ₃₁ , R ₃₂ , R ₃₄	ERD-14VK 102	1K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₂₃	ERD-14VK 182	1.8K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₄	ERD-14VK 332	3.3K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₃₀ , R ₄₈	ERD-14VK 392	3.9K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₃₅ , R ₃₆ , R ₄₅	ERD-14VK 472	4.7K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₆₃	ERD-14VK 123	12K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₉ , R ₁₂ , R ₂₂ , R ₆₈	ERD-14VK 103	10K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₄₆	ERD-14VK 153	15K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₇₀	ERD-14VK 273	27K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₆₉	ERD-14VK 333	33K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₅ , R ₂₉ , R ₃₃	ERD-14VK 104	100K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₇	ERD-14TK 102	1K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₃	ERD-14TK 152	1.5K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₆ , R ₄₃	ERD-14TK 104	100K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₁	ERD-14TK 562	5.6K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₁₁	ERD-14TK 101	100 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₂₆	ERD-14TK 471	470 Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₇₂	ERD-14TK 394	390K Ω , $\frac{1}{4}$ Watt, $\pm 10\%$, Carbon
R ₄₄	EVC-BOLL20D53	5K Ω , D Volume Control
R ₄₉	EVH-BOAL20A53	5K Ω , A Tone Control
COILS AND TRANSFORMERS		
L ₁ , L ₃ , L ₁₆	RLQ-Y25S-5	FM Air Coil
L ₂ , L ₁₇ , L ₁₈	RLQ-Y75S-5	FM Air Coil
L ₄	RLD-4Y53	FM Detector Coil...RF-949LB
L ₄	RLD-4Y55	FM Detector Coil...RF-949VB
L ₆	RLO-4N29	FM Oscillator Coil...RF-949LB
L ₆	RLO-4N32	FM Oscillator Coil...RF-949VB
L ₈ , L ₉	RLF-6F4	LW, MW Antenna Coil
L ₁₀	RLA-3C20-M	SW Antenna Coil
L ₁₁	RLO-1B5	LW Oscillator Coil
L ₁₂	RLO-2B54	MW Oscillator Coil
L ₁₃	RLO-3C18	SW Oscillator Coil
L ₁₅	RLQ-Y15G-5	FM Air Coil...RF-949LB
L ₁₅	RLQ-Y75S-5	FM Air Coil...RF-949VB
L ₂₀	RLQ-Y50S-5	FM Air Coil...RF-949VB
T ₁	RLI-4B152	FM 1st IF Transformer

MODEL RF-949LB or VB

Ref. No.	Part No.	Description
COILS AND TRANSFORMERS		
T ₂	RLI-4B351	FM 2nd IF Transformer (P)
T ₃	RLI-4B351	FM 3rd IF Transformer (S)
T ₄	RLI-2B152	AM 1st IF Transformer
T ₅	RLI-2B257	AM 2nd IF Transformer
T ₆	RLI-4B351	FM 4th IF Transformer (P)
T ₇	RLI-4B351	FM 5th IF Transformer (S)
T ₈	RLI-2B457	AM 3rd IF Transformer
T ₉	RLI-4B551	FM 6th IF Transformer
T ₁₀	RLI-4B552	FM 6th IF Transformer
T ₁₁	RLT-3G25	Input Transformer, Imp. P=1.5KΩ : S=200Ω
T ₁₂	RLT-5J37-V	Power Transformer
SPEAKER AND EARPHONE		
SP	EAS-10P70SH	10cm (4") PM Dynamic Speaker, Imp. 8Ω
EP	EAE-1FB	Magnetic Earphone, Imp. 8Ω
SWITCHES		
S ₁₋₁ ~S ₁₋₁₀	RSR-24	Band Selector Switch
S ₃₋₁ ~S ₃₋₂	RSS-78	AC/BATTERY Select Switch
S ₄	RSS-71	AFC Switch
MISCELLANEOUS		
RJJ-83		Jack, Earphone/External Speaker & Phono
RJJF-3107		Jack, Car Antenna
RJJ-56		Jack, Power Source
RSR-25		Selector, Power Voltage
RJC-102		Terminal, Battery
RJC-502		Spring, Battery
*RJK-1404		Case, Battery
RANT130-7T		Telescopic Whip Antenna
RMA-357		Bracket, Telescopic Whip Antenna
RDT-5181		Shaft, Tuning
RMA-225		Bracket, Core Antenna
RMC-173		Case, Shield
RHG-9		Rubber, Cushion Tuning Gang
RMY-40		Heat Sink
RDD-60-4		Drum, Dial
RDZ-07-1		Dial Cord, 52 inches
RDS-417		Dial Spring
RKD-5740		Dial Scale...RF-949LB
RKD-5990		Dial Scale...RF-949VB
RDP-283		Dial Pointer
DSTR3-10R		Red Screw Chassis M'tg.
+B3-10KS		Screw Back Cover M'tg. 
RVL-408		Arrester
RJA-48		Cord, AC Line
APPEARANCE		
RYA-4560		Cabinet Completely...RF-949LB
RYA-4550		Cabinet Completely...RF-949VB
*RKM-3540		Cabinet Only
*RKF-2800		Cabinet Back Cover
*RKK-560		Cover, Battery Compartment
RKH-63		Handle
RKT-38		Bracket, Handle
*RBS-34		Knob AC/BATTERY Selector
RBE-52		Stopper, RBS-34
RHR-528		Spacer, RBE-52
RJS-27-1		Lug, Whip Antenna
RGT-1265		Name Plate...RF-949LB
RGT-1293		Name Plate...RF-949VB
RBN-238		Knob, Tuning, Tone & Volume Control
RBS-63		Knob, Band Selector